

a rear cover fixed to said frame to provide an enclosure between said frame and said rear cover, said rear cover having an air intake window opposite said opening of said frame;

a pair of C-shaped positive and negative cooling fins having a common cutout section at a half side of said enclosure thereby forming an accommodation space in said enclosure, said cooling fins being fixed to said frame to overlap each other in an axial direction;

a plurality of positive and negative rectifier elements respectively fixed to said pair of positive and negative cooling fins at the other half side thereof;

a pair of brushes for supplying field current to said rotor;

a brush-holder, disposed in said accommodation space, for holding said pair of brushes, said brush-holder having a radially outside surface disposed behind said positive and negative rectifier elements to intersect said cutout section;

a connector case having radially outside surface disposed in said accommodation space to intersect said cutout section at a portion radially outside said brush holder so as to form a cooling air passage directly connecting said air intake window of said rear cover and said cooling fan, said connector case having a terminal for transmitting and receiving electric signals; and

an IC regulator, disposed in said cooling air passage around said connector case to face said rear cover, for controlling output voltage of said armature coil, said IC regulator having a heatsink disposed in said cooling air passage opposite said air intake window of said rear cover.

11. (Twice Amended) A vehicle AC generator, comprising:

a rotor having a field coil and a pair of slip rings connected to said field coil;

a stator having an armature coil;

a frame for supporting said rotor and stator;

a rear cover fixed to said frame, said rear cover having an air intake window;

a rectifying unit including a pair of positive and negative cooling fins and a plurality of positive and negative rectifier elements respectively fixed to said pair of positive and negative cooling fins, said pair of cooling fins having a common cutout section at the middle thereof thereby forming an accommodation space between said frame and said rear cover;

a brush unit including a pair of brushes in contact with said pair of slip rings and a brush-holder for holding said pair of brushes, said brush holder being disposed in said accommodation space so that a radially outside surface of said brush-holder intersects said cutout section;

a connector case disposed in said accommodation space on a side of said brush holder behind said rectifier elements so that a radially inside surface of said case intersects said cutout section so as to form a cooling air passage connecting to said air intake window along said connector case, said connector case having a terminal for transmitting and receiving electric signals; and

an IC regulator, disposed in said cooling air passage around said connector case to face said rear cover, for controlling output voltage of said armature coil, said IC regulator having a heatsink disposed opposite said air intake window of said rear cover.

12. (Twice Amended) A vehicle AC generator, comprising:

a rotor having a field coil and a pair of slip rings connected to said field coil;

a stator having an armature coil;

a frame for supporting said rotor and stator;

a rear cover fixed to said frame, said rear cover having an air intake window;

a rectifying unit including a pair of positive and negative cooling fins and a plurality of positive and negative rectifier elements respectively fixed to said pair of positive and negative cooling fins, said pair of cooling fins having a common cutout section at the middle thereof thereby forming an accommodation space between said frame and said rear cover;

a brush unit including a pair of brushes in contact with said pair of slip rings and a brush-holder for holding said pair of brushes, said brush holder being disposed in said accommodation space so that a radially outside surface of said holder intersects said cutout section;

a connector case disposed in said accommodation space on a side of said brush holder behind said rectifier elements so that a radially inside surface of said case intersects said cutout section, said connector case having a terminal for transmitting and receiving electric signals; and

an IC regulator having a heat sink for controlling output voltage of said armature coil; wherein

said connector case is disposed in said accommodation space so as to form a cooling air passage connecting to said air intake window along said connector case;

said IC regulator is disposed in said cooling air passage around said connector case to face said rear cover; and

said heat sink is disposed in said cooling air passage opposite said air intake window of said rear cover.

14. (Amended) A vehicle AC generator, comprising:

a rotor having a cooling fan;

a stator;

a frame for supporting said rotor and stator;

a rear cover disposed at a rear end of said frame, said rear cover having an air intake window;

a pair of C-shaped cooling fins having a common cutout section at the middle thereof disposed between said frame and said rear cover, thereby forming an accommodation space between said frame and said rear cover;

a plurality of rectifier elements respectively fixed to said pair of cooling fins;

a brush unit disposed in said accommodation space so that a radially outside surface of said unit intersects said cutout section;

a connector case disposed in said accommodation space at a side of said brush unit behind said rectifier elements so that a radially inside surface of said case intersects said cutout section thereby forming a cooling air passage connecting said air intake window and said cooling fan; and

an IC regulator having a heat sink disposed in said cooling air passage.

Please add new claims 15 and 16 as follows:

--15. The AC generator as claimed in claim 1, wherein said IC regulator is disposed radially outside of said brush-holder.--

--16. The AC generator as claimed in claim 1, wherein said cooling air passage is open to a portion radially inside said cooling fan.--

#### REMARKS

Claims 1-12 and 14-16 are pending. By this Amendment, claim 13 is canceled, claims 1, 11, 12 and 14 are amended and claims 15 and 16 are added. Claims 1, 11, 12 and 14 are amended to clarify the subject matter therein and do not narrow the scope of the pending claims from that of the previously filed claims. No new matter is added.

The attached Appendix includes a marked-up copy of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).